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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/742,968	12/20/2000	Ahti Koski	Mo-6089/PS-1075	8668	
157 7:	590 03/25/2004		EXAMINER		
BAYER POLYMERS LLC			WACHTEL,	WACHTEL, ALEXIS A	
100 BAYER R			ART UNIT	PAPER NUMBER	
PITTSBURGH, PA 15205			1764	. <u> </u>	
			DATE MAILED: 03/25/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

ol		Applicant(a)	
1	Application No.	Applicant(s)	
Office Action Commence	09/742,968	KOSKI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Alexis Wachtel	1764	_
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet v	with the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR I THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TON. CFR 1.136(a). In no event, however, may a ion. s, a reply within the statutory minimum of th period will apply and will expire SIX (6) MO y statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this com \BANDONED (35 U.S.C. § 133).	munication.
Status			
1) Responsive to communication(s) filed on	12-20-2000		
	This action is non-final.		
3) Since this application is in condition for a	-	tters, prosecution as to the r	nerits is
closed in accordance with the practice u	·	•	
Disposition of Claims			
4)⊠ Claim(s) <u>1-9 and 11-19</u> is/are pending in	the application.		
4a) Of the above claim(s) is/are wi			
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-9 and 11-19</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction	and/or election requirement.		
Application Papers			
9) The specification is objected to by the Exa	aminer.		
10) The drawing(s) filed on is/are: a)		by the Examiner.	
Applicant may not request that any objection	-		
Replacement drawing sheet(s) including the c		• •	1.121(d).
11) The oath or declaration is objected to by t			.,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of:	preign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority docu	ments have been received		
2. Certified copies of the priority docu		Application No	
3. Copies of the certified copies of the			ade
application from the International E			uge
* See the attached detailed Office action for		t received.	
Attachment(s)	<u>л</u> п		
 1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 	4) [_] Interview 48) Paper Not	Summary (PTO-413) (s)/Mail Date	
3) A Information Disclosure Statement(s) (PTO-1449 or PTO/	SB/08) 5) DNotice of	Informal Patent Application (PTO-1	52)
Paper No(s)/Mail Date	6) 🛄 Other:		

Detailed Action

Claim Rejections - 35 USC § 112

1. Claims 11-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 11, it is not clear what is meant by the phrase: A modular reaction system comprising a plurality of reactor assemblies comprising a substantially elongate tubular housing..." The Examiner assumes that the Applicant means to claim "A modular reaction system comprising a plurality of reactor assemblies, each reactor assembly comprising a substantially elongate tubing..."

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims rejected under 35 U.S.C. 102(b) as being anticipated by EP 0 614 866 A1 to Kunihiko et al.

Kunihiko et al teach a reactor assembly per claim 1 comprising a substantially elongate tubular housing, at least one reactant inlet, at least one reaction mixture outlet disposed above the at least one reactant inlet (Fig.8, item 6), and agitator (Fig.8, item 9) disposed in a region near the at least one reactant inlet and a perforated member

Application/Control Number: 09/742,968 Art Unit: 1764

(Fig.8, item 20; pp.14, lines 7-10) disposed in tubular housing between the agitator and the reaction mixture outlet.

Per claim 2: The reactor assembly defined in claim 1, wherein the perforated member is a disc (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 3: The reactor assembly defined in claim 1, wherein the perforated member comprises aperture (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 4: The reactor assembly defined in claim 1, wherein the perforated member comprises slots (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 5: The reactor assembly defined in claim 1, wherein the perforated member occupies substantially the entire cross section of the tubular housing substantially transverse to its longitudinal axis (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 6: The reactor assembly defined in claim 1, wherein the reactor assembly comprises a plurality of reactant inlets (Fig. 8, item 6).

Per claim 7:The reactor assembly defined in claim 1, comprising a plurality of perforated members (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 8:The reactor assembly defined in claim 2, wherein the perforated member occupies substantially the entire cross section of the tubular housing substantially transfers to its longitudinal axis (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 9: The reactor assembly defined in claim 9, wherein the perforated member comprises apertures (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 11: A modular reaction system comprising a plurality of reactor assemblies, each reactor assembly comprising a substantially elongate tubular housing,

Application/Control Number: 09/742,968 Art Unit: 1764

at least one reactor inlet, at least one reaction mixture outlet disposed above the at least one reactant inlet, and agitator disposed in a region near the at least one reactant inlet and a perforated member disposed in tubular housing between the agitator and the reaction mixture outlet. Examiner notes that EP 0 614 866 A1 teaches a modular reactor (Fig. 8) to the extent that individual zones defined by baffle means (20) clearly constitute discrete reaction zones. These reactor zones are modular in the sense that baffle means (20) can be configured in any number of ways (pp.14, lines 7-10). The baffle means (perforated members) effectively function as a reactant inlets and outlets for each reaction zone defined by said baffle means.

Per claim 12: A modular reaction system according to Claim 11, wherein the perforated member is a disc (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 13: The reactor assembly defined in Claim 11, wherein the perforated member comprises apertures (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 14:The reactor assembly defined in Claim 11, wherein the perforated member comprises slots (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 15: The reactor assembly defined in Claim 11, wherein the perforated member occupies substantially the entire cross section of the tubular housing substantially transverse to its longitudinal axis (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 16: The reactor assembly defined in Claim 11, wherein the reactor assembly comprises a plurality of reactant inlets (Fig.8, item 6).

Per claim 17: The reactor assembly defined in Claim 11, comprising a plurality of perforated members (Fig. 9(a), item 20A; pp.14, lines 7-10).

Page 4

Application/Control Number: 09/742,968 Art Unit: 1764

Per claim 18: The reactor assembly defined in Claim 12, wherein the perforated member occupies substantially the entire cross section of the tubular housing substantially transfers to its longitudinal axis (Fig. 9(a), item 20A; pp.14, lines 7-10).

Per claim 19: The reactor assembly defined in Claim 18, wherein the perforated member comprises apertures (Fig. 9(a), item 20A; pp.14, lines 7-10).

Prior Art of Record

4. The prior art of record and not relied upon is considered pertinent to Applicant's disclosure. In addition, the following references are cited for disclosing various aspects of Applicant's invention:

US 3,556,734

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alex Wachtel whose telephone number is 571-272-1455. The examiner can normally be reached on 10:30am to 6:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Glenn Caldarola, can be reached at (571)-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Glenn Caldarola Supervisory Patent Examiner Motionology Center 1700